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University of North Dakota

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# UNIVERSITY LETTER

UNIVERSITY OF NORTH DAKOTA AT GRAND FORKS

Volume 36, Number 26: March 5, 1999

## Please Take Part In Presidential Candidate Visits

All faculty and staff are invited to take part in presidential candidate visits and provide feedback. The final candidates will be brought back to campus to be interviewed by the State Board of Higher Education, but the current round of visits will likely be the only opportunity for faculty and staff to interact with the candidates through structured meetings, and hence, the only opportunity for providing meaningful feedback as part of the search process. Please participate in the search by attending meetings with the candidates, and fill out the evaluation sheets provided at each event. -- *Harvey Knull (Graduate School), Chair, Presidential Search Committee.*

## Candidate Roy Austensen Schedule Changed

Some dates and times have changed for Roy Austensen, the second of eight presidential candidates to visit campus. The following are the public events during Austensen's visit:

### Thursday, March 4

**Noon** -- Public speech, Memorial Union Ballroom; **1:45 p.m.** — Open forum with students, Memorial Union; **4 p.m.** — Open forum with classified staff, Gamble Hall Room 1; **5 p.m.** — Public reception, North Dakota Museum of Art.

### Friday, March 5

**10 a.m.** — Open forum with faculty, Memorial Union Lecture Bowl.

Dr. Roy A. Austensen has been Provost and Vice President for Academic Affairs at Valparaiso University, Valparaiso, Indiana, since 1992. He was also Acting Chief Financial Officer there, 1994-1996. He also holds the academic rank of Professor of History. Prior to Valparaiso University, he was at Illinois State University from 1969 to 1992, serving as Associate Vice President for Instruction and Dean of Undergraduate Studies his last three years there after teaching history there prior to that. His academic studies career includes the Ph.D., University of Illinois at Urbana-Champaign, 1969, with a major field of history; language study at the Goethe Institut, Bad Reichenhall, Germany, 1969; graduate study in history, University of Vienna, Austria, 1966-67; M.S., University of Illinois at Urbana-champaign, 1964, with a major in history; B.S., Concordia College, River Forest, Illinois, 1963, with major fields of study in education and history.

## Did You Know?

It was not until 1921 that the luxury of a paved University Avenue from the UND campus to the city of Grand Forks was realized.

University Letter is also available electronically in the Events and News section of UNInfo on the Web, <http://www.und.edu/dept/our/uletter.htm>

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## Presidential Candidate Beukema Focuses On Challenges Facing University

Phil Beukema, Vice President for Academic Affairs at Northern Michigan University, Marquette, Mich., discussed challenges and opportunities faced by the University in his public address March 1.

He opened by enumerating UND's strengths as he saw them. They include the sense of family here, the high quality of faculty and staff, their dedication to the institution, our record of service, and good quality programs and services, as well as a good base of support from alumni.

The challenge, he said, is to move UND to the next level. He named five challenges facing higher education and the University:

- ♦ Competition is increasing on all sides, from for-profit educators, corporate universities, and traditional institutions.
- ♦ Technology and technological change is multidirectional, and should be used as an instrument to achieve goals, not as a goal itself.
- ♦ Technological and cultural changes have produced a "new consumerism," in which students demand that we bring education to them, rather than have students come to campus.
- ♦ There is potential for a new role for faculty as "learning team members" and increased student self-sufficiency.
- ♦ The global information era is bringing new areas of knowledge and new opportunities.

In response to these challenges, Beukema proposed five tentative conclusions, applicable to all of higher education:

- ♦ Collaboration has been the wave of the future for some time; the future is uncertain for those who refuse to collaborate with other educational institutions, corporations, and the public sector.
- ♦ Investments in technology are similar to investing in the stock market. We must invest according to a well-thought, mission-driven, data-based plan with specific strategies.
- ♦ If ongoing investment in technology is imperative, then making global connections is also imperative. Here, he noted that UND's concept of its mission — that of serving the state, nation and world, is unique, and he knows of only two other institutions whose mission statement is similar.
- ♦ An institution pretending to be everything to everyone charts a course to mediocrity. One which builds centers of excellence will rise to prominence.
- ♦ Student success is two-way. The institution that helps insure the highest rates of success accentuate student development and learning.

Possibilities and questions about the University wrapped up the talk:

- ♦ A successful University must exert every effort to assure excellence. This includes investing in areas to capture strategic advancement.
- ♦ There is an opportunity for UND to take a leadership role to form partnerships and collaboration in community and economic development across the state. UND could establish networks and connections with other institutions, political entities and economic development entities to move the state and community ahead, as well as across the country and internationally. Within the corporate sector, possibilities are endless to assist in the growth and development of institutions across the world. This can also strengthen the University financially.
- ♦ We live today under a technological imperative, and must decide three things: what strategies could broaden access, whether the University could forge a leadership program using technology, and how to advance the University's leadership position.

- ♦ The best investment a university can make is in student success.
- ♦ The timing is right to lay the groundwork for the next capital campaign.

In response to a question from the audience, Beukema responded that UND can compete in distance education with "big name" universities, as long as we build on our strengths and choose where we can do a stellar job. He stressed that the distance education market is too large to be filled by just one university, and emphasized the importance of taking calculated risks after identifying the market and one's strengths.  
-- Jan Orvik, Editor, University Letter.

## Baker Briefing Set For March 23

President Baker will hold an informational briefing at 9 a.m. **Tuesday, March 23**, in the Memorial Union Lecture Bowl. Everyone is invited to attend. — Jan Orvik, Editor, University Letter.

## Founders Day Honorees Listed

More than \$18,500 was awarded Thursday, Feb. 25, to eight faculty members and three departments for outstanding contributions in teaching, research and public service. Also at the ceremony, representatives of the University Senate, Staff Senate, and Student Government presented Kendall Baker with an elmwood table as a thank you for his service.

The honorees received plaques and cash awards at the UND Founders Day banquet, marking the 116th anniversary of the founding of the university. Also honored were retired and retiring personnel, and faculty and staff who have served 25 years at UND.

The awards are possible with grants from the UND Foundation, the Fellows of the University Inc., the University of North Dakota and UND Student Government.

This year's recipients included:

- \* **Birgit Hans**, Associate Professor of Indian Studies, UND Foundation/McDermott Award for Individual Excellence in Teaching;
- \* **Sally Pyle**, Assistant Professor of Biology, UND Foundation/McDermott Award for Individual Excellence in Teaching;
- \* **Steven Sternberg**, Assistant Professor of Chemical Engineering, UND Foundation/Lydia and Arthur Saiki Prize for Graduate or Professional Teaching Excellence;
- \* **Fred Schneider**, Professor and Chair of Anthropology, UND Foundation/Thomas J. Clifford Faculty Achievement Award for Outstanding Faculty Development and Service;
- \* **David Lambeth**, Professor of Biochemistry and Molecular Biology, and **Diane Langemo**, Professor of Nursing Practice and Role Development, together will share the UND Foundation/Thomas J. Clifford Faculty Achievement Award for Excellence in Research;
- \* **Richard Ludtke**, Professor of Sociology and Center for Rural Health Research Associate, UND Foundation/McDermott Award for Excellence in Teaching, Research, Creative Activity, and Service;
- \* **Mark Hoffmann**, Associate Professor of Chemistry, The Sigma Xi Faculty Award for Outstanding Scientific Research;
- \* **Political Science and Public Administration**, UND Foundation/McDermott Award for Departmental Excellence in Teaching;
- \* **Communication Sciences and Disorders**, Fellows of the University Award for Departmental Excellence in Service.
- \* **Chemistry**, Fellows of the University Award for Departmental Excellence in Research.

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### Founders Day Honorees Listed, continued

*Retired or retiring faculty and staff* honored included **Ronald Apanian**, Professor of Civil Engineering; **Dorothy Arvidson**, Building Services Manager, Plant Services; **Ellen Rose Auyong**, Professor of Visual Arts; **Cal Becker**, Associate Director, University Counseling Center; **Lyle Beiswenger**, Vice President for Finance; **Richard Beringer**, Chester Fritz Distinguished Professor of History; **Marilyn Bowman**, Data Processor Coordinator, Family Medicine; **Beverly Cariveau**, Building Services Technician, Plant Services; **Duane Cole**, Associate Professor of Physics; **Milton Derman**, Building Services Technician, Plant Services; **Raymond Fischer**, Professor, School of Communication; **Rita Galloway**, Special Projects Coordinator, University Relations; **Carla Hess**, Chester Fritz Distinguished Professor of Communication Sciences and Disorders; **Al Hoffarth**, Vice President for Operations and Finance; **Thomas Howard**, Associate Professor of History; **Robert Korbach**, Professor of Economics; **E. Mark Langemo**, Professor of Business and Vocational Education; **Ronald Pynn**, Professor of Political Science; **Sandra Robinson**, Coordinator, Testing Services, University Counseling Center; **LeRoy Sondrol**, Assistant Vice President for Facilities Planning; **James Vivian**, Professor of History.

*Faculty and Staff to Be Honored for 25 Years of Service* included **Michael Anderegg**, Chester Fritz Distinguished Professor of English; **James Antes**, Professor of Psychology; **Ellen Rose Auyong**, Professor of Visual Arts; **Thomas Ballintine**, Associate Professor of Chemistry; **Virginia Ballintine**, Medical Lab Technician, Grand Forks Human Nutrition Research Center; **Terry Buraas**, Equipment Operator, Dining Services; **Gerald Clancy**, Buyer, Purchasing; **Evelyn Cole**, Library Associate, Chester Fritz Library; **Kathy Dittmore**, Dining Services; **Lillian Elsinga**, Associate Vice President for Student Services; **Carla Wulff Hess**, Chester Fritz Distinguished Professor of Communication Sciences and Disorders; **Cathline Steitz Hilley**, Technical Support Specialist, Computer Center; **Alice Hoffert**, Director, Student Financial Aid; **Linda Hussey**, Administrative Officer, Alumni Association and UND Foundation; **Cynthia Iverson**, Library Associate, Harley E. French Library of the Health Sciences; **Robert Korbach**, Professor of Economics; **Kathryn McCleery**, Professor of Visual Arts; **Sherry Metzger**, Supervisor, Duplicating Services; **Patricia Motter Nies**, Special Project Assistant, Enrollment Services/University Relations; **Brian Paulsen**, Chester Fritz Distinguished Professor of Visual Arts; **Donald Piper**, Director of Summer Sessions, Continuing Education; **James Vivian**, Professor of History; **Cecilia Volden**, Professor, Practice and Role Development, College of Nursing; **Jean Westman**, Medical Lab Technician, Grand Forks Human Nutrition Research Center.

### Theatre Will Host Drama Day Play Festival

The Theatre Arts Department will host the 1999 Drama Day and One-Act Play Festival **Thursday, March 4**, in Burtness Theatre. Outstanding high schools from North Dakota and Minnesota have been selected to take part in the day's activities. Red River High School will perform from North Dakota; Minnesota performing schools are East Grand Forks, Hawley, Lancaster, Tri-County, Kittson Central, Greenbush-Middle River, and Crookston Central. Approximately 10 other area schools will attend the Festival to observe and participate in the activities.

The first play will be presented at approximately 9 a.m. Each group is limited to 40 minutes including set-up, strike, performance, and critique.

Guest critic for this event is Dr. Michael Ellison, Choreographer/Director/Body-Energy Worker/Teacher. Dr. Ellison has done body-

energy work, directed, choreographed, taught and performed across the United States, in Denmark, Canada and the Philippines. As a body-energy worker, he has worked extensively with people, including cancer and AIDS patients-to transform their lives. He has also worked with many performers, specifically with members of the national tours of "Beauty and the Beast," "Miss Saigon," and "Cats," as well as the Broadway casts of "Grease," "Master Class," "Rent" and "Phantom of the Opera."

Dr. Ellison will lead a workshop for Drama Day participants, and UND Theatre Arts acting faculty will hold acting workshops during the day. Dr. Ellison is in residence this week as Theatre Arts' guest artist and will teach master classes to Voice, Acting II and Studio classes.

The public is invited to attend the Festival, which should last until approximately 4 p.m. Feel free to drop in at any time during the day. This is an opportunity to see the area's finest young thespians. For more information, call 777-2899. -- *Mary Cutler, Theatre Arts.*

### Studio One Lists Guests

Artist Carol Scott will demonstrate the art of marbling on the **Thursday, March 4**, edition of "Studio One" live at 5 p.m. on Channel 3 in Grand Forks. Marbling, an art form created for decorative purposes, originated in Turkey sometime during the 1400s. Eventually marbling became a popular background for official documents to prevent erasure and forgery. It is often used for picture framing, bookbinding, note cards, collages, and origami. Scott will demonstrate marbling which can be produced by anyone.

Apollo, a Greek-Canadian dance troupe from Winnipeg, Manitoba, formed a year-and-a-half ago by mixing elements from Greek culture, modern dance and theatre into their performances. The group members are all first generation Greeks and perform across the United States and Canada. Apollo hopes to be in the opening ceremonies of the Olympic Games in Greece in 2004.

"Studio One" is an award-winning news and information program produced at the University of North Dakota Television Center. The program airs live on UND Channel 3 on Thursdays. Rebroadcasts can be seen Thursdays and Fridays at 7p.m., Saturdays at 10 a.m. and noon, as well as Monday through Wednesday at 7 p.m. Prairie Public Television airs "Studio One" on Saturday at 6:00 a.m. The program can also be seen in Fargo, Bismarck/Mandan, Minot, and Minneapolis. -- *Mollie Gram, Studio One Marketing Team.*

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## Announcements

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### ASN Will Develop Distance Ed Website

The John D. Odegard School of Aerospace Sciences AeroSpace Network (ASN) has been awarded a \$50,000 grant to develop an Internet website that will serve as a clearinghouse for information on all the distance learning courses and programs offered by North Dakota's public colleges and universities. The award was announced by Mike Hillman, North Dakota University System Vice Chancellor of Academic Affairs.

ASN is the educational technology support division of the Odegard School. Under the grant, ASN will develop and implement a web site called ACCESS which will provide a wide variety of information on the distance learning courses and programs offered by NDUS institu-

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### ASN Will Develop Distance Ed Website, continued

tions. ACCESS will provide one-stop shopping for students looking for non-traditional course work offered by North Dakota universities. ASN was chosen competitively from proposals submitted by public and private organizations across the state. Since the creation of North Dakota's statewide Interactive Video Network (IVN) over a decade ago, applications of distance education in North Dakota have mushroomed and the creation of a system like ACCESS became a necessity. -- *Henry Borysewicz, ASN Acting Director.*

### Videos Will Focus On Learning Disabilities

Disability Support Services (DSS) will show videos on learning disabilities and related issues on Mondays, Tuesdays, and Wednesdays, from March 15-31, at noon and 3 p.m. at Disability Support Services, 190 McCannel Hall. The schedule follows:

**Monday, March 15,** "College Students with Learning Disabilities: Accepting, Accommodating, and Succeeding," (65 minutes);

**Tuesday, March 16,** "Understanding Learning Disabilities: How Difficult Can This Be? The Fat City Workshop," by Richard LaVoie, (70 minutes);

**Wednesday, March 17,** "Effective Teaching for Dyslexic/All College Students" by Brown University Center for the Advancement of College Teaching, (37 minutes);

**Monday, March 22,** "Learning Through Listening: Learning About Learning Disabilities" by Recordings for the Blind and Dyslexic, (15 minutes);

**Tuesday, March 23,** "CPCC 'College Transition' Learning Disabilities," by Cin Services, (15 minutes);

**Wednesday, March 24,** "Talking Computers for LD Students: The Genesis of Sound-Proof," by HumanWare, (20 minutes);

**Monday, March 29,** "The Rights and Responsibilities of Students with Disabilities in Higher Education," by Dr. Jane Jarrow, (60 minutes);

**Tuesday, March 30,** "Everything You Need to Know and Want to Ask: ADA, Section 504, Accommodating Students with Disabilities, and Different Learning Styles," by Dr. Jane Jarrow, (90 minutes);

**Wednesday, March 31,** Continuation of Tuesday's video or view any of the above videos.

If a video you want to see is not shown when you can attend, you may schedule a time that is convenient for you at the DSS front desk or call 777-3425 for more information. -- *Elizabeth Fletcher Lamb, Disability Support Services.*

### TRIO Programs Announce Raffle Winner

TRIO Programs held a raffle for a free airline ticket donated by Monarch Travel and Tours of East Grand Forks, Minn. The drawing was held on Feb. 26, and the winner is Ray Pikarski, Visual Communications Specialist at EERC. The proceeds of the raffle go to support the TRIO scholarship and help to fund TRIO sponsored events that directly benefit TRIO students. -- *Judy Cowger, Assistant Director, TRIO-Educational Opportunity Center.*

### Research Participants Sought

Participants are needed for research projects dealing with language and memory. You must be over 55 years of age to participate. All projects take less than one hour, are conducted on campus, and participants will receive \$10 for their time and effort. If interested, please call me. -- *F. Richard Ferraro, Psychology, 777-2414.*

### Spring Break Hours Listed

#### Chester Fritz Library:

The hours for Spring Break are: Saturday and Sunday, March 6-7, closed; Monday through Friday, March 8-12, 8 a.m. to 4:30 p.m.; Saturday, March 13, closed; and Sunday, March 14, 1 p.m. to midnight. -- *Karen Cloud, Chester Fritz Library.*

#### Law Library:

The Law Library hours for Spring Break are: Friday, March 5, 7:30 a.m. to 5 p.m.; Saturday, March 6, closed; Sunday, March 7, closed; Monday to Thursday, March 8-11, 7:30 a.m. to 8 p.m.; Friday, March 12, 7:30 a.m. to 5 p.m.; Saturday, March 13, 10 a.m. to 5 p.m.; Sunday, March 14, 10 a.m. to 11 p.m. Regular hours resume Sunday, March 14. -- *Cherie Stoltman, Thormodsgard Law Library.*

## Grants and Fellowships

### NIH Seed Grants Awarded To UND, NDSU Researchers

The North Dakota EPSCoR Office and the ND NIH IDEa Center have awarded NIH seed grants to researchers from UND and NDSU. These intra- and inter-institutional seed grant projects help investigators prepare proposals for submission to the National Institutes of Health. UND recipients are:

**Sven Anderson,** Department of Computer Science, UND received \$5,000 to prepare a proposal titled: "The Development of Prosodic and Phonological Awareness"; Submission Planned: Feb. 1, 2000.

**James Drewett,** Department of Pharmacology and Toxicology, UND received \$5,000 to prepare a proposal titled: "Nitric Oxide and Guanylyl Cyclase Effects on Norepinephrine Release"; Submission Planned: Feb. 1, 2000.

**Bryon Grove,** Department of Anatomy and Cellular Biology, UND received \$5,000 to prepare a proposal titled: "Role of Gravin in Endothelial Cells"; Submission planned: Feb. 1, 2000.

**Peter Meberg,** Department of Biology, UND, received \$5,000 to prepare a proposal on the topic of actin depolymerizing factor (ADF); Submission planned: Feb. 1, 2000.

**Sally Pyle,** Department of Biology, UND, received \$5,000 to prepare a proposal on the topic of whether cocaine interferes with pathfinding through alterations in growth cone function. Submission planned: Feb. 1, 2000.

**Jun Ren,** Department of Physiology, UND, received \$5,000 to prepare a proposal titled: "Role of Insulin-Like Growth Factor I in Cardiac Dysfunction in Hypertension and Obesity"; Submission planned: Feb. 1, 2000;

These awards were made in the third and final year of National Institutes of Health IDEa Center funding. The Co-Directors of the ND NIH IDEa Center are Kevin McCaul and Mark McCourt. For information about the IDEa Center, please call 231-8738. Philip Boudjouk is the Director of the ND EPSCoR Program. For information about EPSCoR, please call 231-8400. -- *Wanda Kapaun, ND NIH IDEa Center Administrator, Department of Psychology, NDSU.*

## Research, Grant Opportunities Listed

Following are research and grant opportunities. For more information, contact the Office of Research and Program Development at 777-4278.

### NATIONAL INSTITUTES OF HEALTH (NIH)

The Academic Career Award (K07; PA-95-052) provides support for individuals interested in introducing or improving curriculum to enhance the educational or research capacity of an institution. It supports junior candidates who wish to develop expertise in a particular field by improving teaching, research, and leadership skills and senior candidates with demonstrated scientific expertise and leadership skills. The award is supported by NIA, NIAAA, NIAMS, NCI, NIEHS, and NIMH. Junior candidates for the developmental award must identify a mentor who is expert in the selected field of interest who will provide supervision as required by the award. Candidates for the developmental award must devote at least 75% of effort to this award. Candidates for the leadership award must have an academic appointment at a influential level; sufficient clinical training, research, or teaching experience to implement a program of curriculum development; and devote at least 25% effort to the program. **Deadlines:** 6/1, 10/1. **Contact:** the appropriate institute; <http://www.nih.gov>.

### AMERICAN HEART ASSOCIATION (AHA)

Scientist Development Grants provide \$65,000/year for 4 years to support beginning scientists in their progress toward independence. Applicants should be faculty/staff members initiating independent research careers, usually at the rank of Instructor or Assistant Professor or their equivalents. Applications may be submitted in the final year of postdoctoral research fellowship or the initial years of the first faculty appointment. At the time of award activation, no more than 4 years may have elapsed since the first full-time faculty/staff appointment. Applicants cannot hold or have held any other national award.

Established Investigator Grants provide \$75,000/year for 4 years to support the career development of clinician-scientists and Ph.D.'s. Eligible applicants must be full-time faculty/staff members 4-9 years past the first faculty appointment. Applications from current or past Established Investigators will not be considered, nor will individuals who have completed or currently hold an NIH Research Career Development Award, Independent Scientist Award or equivalent award from another organization.

Grant-In-Aid Awards provide \$55,000/year for 3 years to encourage innovative and meritorious research projects of independent investigators. Applicants should be full-time faculty/staff members pursuing independent research.

Interests are in the broad field of cardiovascular function and disease, stroke, or related clinical, basic sciences, and public health problems. Proposals are encouraged from all basic disciplines as well as for epidemiological and clinical investigations that bear on cardiovascular and stroke problems. Eligible applicants are U.S. citizens or permanent residents who hold an MD, Ph.D., D.O. or equivalent degree. For Grants-in-Aid, applicants may also be foreign nationals, exchange visitors (J-1), temporary workers in a specialty occupation (H-1 or H-1B), Canadian or Mexican citizens engaging in professional activities (TC or TN), or temporary workers with extraordinary ability in the sciences (O-1) who hold an M.D., D.O., Ph.D., or equivalent doctoral degree. **Contact:** 214/706-1453; fax 214/706-1341; [ncrp@amhrt.org](mailto:ncrp@amhrt.org); <http://www.amhrt.org>. **Deadline:** 6/15/99.

### NATIONAL SCIENCE FOUNDATION (NSF)

NSF Graduate Teaching Fellows in K-12 Education (GK-12), a new

program managed by the Directorate for Education and Human Resources, provides support for graduate students and advanced undergraduates in the Sciences, Mathematics, Engineering, and Technology (SMET) to serve as resources in K-12 schools to assist in providing quality science and mathematics education. Eligible entities are academic institutions in the U.S. and its territories that grant master's or doctoral degrees in SMET disciplines, as well as collaborations between institutions and industry, non-profit institutions, and museums. Expected outcomes include improved communication and teaching skills for the fellows, enriched learning by K-12 students, professional development opportunities for K-12 teachers, and strengthened partnerships between institutions of higher education and local school districts. The program announcement (NSF 99-75) is only available electronically at <http://www.nsf.gov/>. Anticipated award size is \$200,000-\$500,000/year for 2-3 years. **Deadlines:** 4/1/99 (Optional Letter of Intent); 5/5/1 (Proposal). **Contact:** Dorothy Stout (Chair, GK-12 Committee), Education and Human Resources, 703/306-1670, [dstout@nsf.gov](mailto:dstout@nsf.gov); Carter Kimsey, Biological Sciences, 703/306-1469, [ckimsey@nsf.gov](mailto:ckimsey@nsf.gov); Anthony Maddox, Computer and Information Science and Engineering, 703/306-1981, [amaddox@nsf.gov](mailto:amaddox@nsf.gov); Wyn Jennings, Education and Human Resources, 703/306-1696, [pjennings@nsf.gov](mailto:pjennings@nsf.gov); Mary Poats, Engineering, 703/306-1380, [mpoats@nsf.gov](mailto:mpoats@nsf.gov); Michael Mayhew, Geosciences, 703/306-1557, [mmayhew@nsf.gov](mailto:mmayhew@nsf.gov); Henry Blount, Mathematics and Physical Sciences, 703/306-1946, [hblount@nsf.gov](mailto:hblount@nsf.gov); Steven Breckler, Social, Behavioral, and Economic Sciences, 703/306-1728, [sbreckle@nsf.gov](mailto:sbreckle@nsf.gov); Fae Korsmo, Polar Programs, 703/306-1029, [fkorsmo@nsf.gov](mailto:fkorsmo@nsf.gov).

The Division of Environmental Biology (DEB) will provide up to 5 years' support for projects related to environmental biology, including systematic and population biology, ecological studies, and long-term projects in environmental biology. Although most projects supported are for basic research, support may also be provided for applied research, research workshops, symposia, conferences, purchase of scientific equipment for research purposes, operation of specialized research facilities, improvement of research collections, and supplementary support for undergraduates on individual projects. **Deadlines:** 6/15/99, 12/15/99. **Contact:** 703/306-1480; fax 703/306-0367; <http://www.nsf.gov/bio/deb/deb-pd.htm>.

The Division of Integrative Biology and Neuroscience (IBN) provides up to 5 years' support for research and research-related activities on integrative biology and neuroscience, including developmental mechanisms, neuroscience, and physiology and behavior. Support is provided for research aimed at understanding the living organism—plant, animal, microbe—as a unit of biological organization. The development and use of a wide diversity of organisms as biological models is encouraged to assist in identifying unifying principles common to all organisms and in documenting the variety of mechanisms that have evolved in specific organisms. Current scientific emphases include biotechnology, biomolecular materials, environmental biology, global change, biodiversity, molecular evolution, plant science, microbial biology, and computational biology (including modeling). Support is usually provided for the education and training of future scientists, but also for doctoral dissertation research, conferences, workshops, and symposia. **Deadlines:** 7/10/99, 1/10/2000. **Contact:** 703/306-1420; fax 703/306-0349; <http://www.nsf.gov/bio/ibn/ibn-pd.htm>.

### INTERAGENCY ANNOUNCEMENT IN METABOLIC ENGINEERING

The Departments of Agriculture, Commerce, Defense, and Energy, the Environmental Protection Agency, National Aeronautics and Space Administration, and National Science Foundation announce an

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## Research, Grant Opportunities Listed, continued

interagency research opportunity in Metabolic Engineering. A parallel opportunity exists from NIH. Proposals are invited that describe enabling technologies useful for the study of metabolic processes and metabolic engineering. Three areas are of particular interest, although others may be considered: 1) Instrumentation, sensors, new analytical tools, and new cell and molecular biology methods which facilitate the study of metabolic pathways; 2) Quantitative and conceptual models integrated with experimental studies that better characterize the regulation and integration of complex, interacting metabolic pathways; and 3) The use of bioinformatics to deduce the structure, function, and regulation of major metabolic pathways. Multi-disciplinary projects are being sought in these areas. Responses to this announcement will involve a mandatory two-step process: Pre-Proposals and invited Full Proposals. Investigators are strongly encouraged to discuss their idea for a Pre-Proposal with a member(s) of the Metabolic Engineering Working Group. The full program announcement is available on NSF's website at <http://www.nsf.gov/pubs/1999/nsf9985/nsf9985.htm>. **Contact:** See Program Announcement. **Deadlines:** 5/17/99 (Pre-Proposal); 6/15/99 (Full Proposal).

## LINDBERGH FOUNDATION GRANTS

Grants of up to \$10,580 are awarded for projects that help achieve a balance between technological progress and preservation of the natural environment. Areas of interest include aviation/aerospace, agriculture, conservation of natural resources (including animals, plants, water, and general conservation--land, energy, air, etc.), education (including humanities/education, the arts, and intercultural communication), exploration, health (including biomedical research, health and population sciences, and adaptive technology), and waste minimization and management. A Jonathan Lindbergh Brown Grant may be given to a project in the above categories to support adaptive technology or biomedical research which seeks to redress imbalance between an individual and his/her human environment. Individuals who are citizens of any country and who may or may not be affiliated with an academic or nonprofit institution are eligible. **Deadline:** 6/15/99. **Contact:** 612/338-1703; fax 612/338-6826; [lindfdtn@mtn.org](mailto:lindfdtn@mtn.org); <http://www.mtn.org/lindfdtn>.

## ITTLESON FOUNDATION, INC.

The Foundation provides seed money for the start-up of innovative programs that will improve the social welfare of citizens of the U.S. Current areas of interest include AIDS, the environment and mental health. Preference is given to pilot projects, test and demonstration projects, and applied research which ideally should inform public policy, if successful. Such projects should be of national scope or significance beyond the local area of implementation. Projects should result in a product or outcome of some consequence in the real world. Dissemination projects are also supported. Recent single-year grants have ranged from \$5,000-\$400,000. Application should be made with a letter of inquiry. **Deadlines:** 4/1/99, 9/1/99. **Contact:** Anthony C. Wood, Executive Director, 212/794-2008; fax 212/794-0351; <http://www.ittlesonfoundation.org>.

## DEPARTMENT OF EDUCATION

The Partnership Grants for Improving Teacher Quality program is

intended to ensure that new teachers have the content-knowledge and teaching skills they need when they enter the classroom. Accordingly, applications are requested to fund a limited number of highly committed partnerships that will 1) increase collaborations between schools of arts and sciences and schools of education, 2) strengthen the role of K-12 educators, particularly those in high-need local educational agencies (LEAs), and 3) increase the intensity and quality of clinical experiences of prospective teachers. The full program announcement is on the Department of Education website at <http://gcs.ed.gov/fedreg/announce.htm>. **Deadlines:** 4/2/99 (Preproposal); 7/9/99 (Full Proposal). **Contact:** Louis J. Venuto, 202/708-8596; fax 202/260-9272; [Louis\\_Venuto@ed.gov](mailto:Louis_Venuto@ed.gov).

## ENVIRONMENTAL PROTECTION AGENCY (EPA)

The Exploratory Research Program solicits proposals in the areas of environmental physical sciences and engineering. Research may be considered "high risk" or deal with fundamental principles, but should lead to creative or innovative solutions to significant high risk environmental problems. Applications should describe the nature and significance of the environmental issue being targeted, along with the nature and expected benefits of the proposed research in leading to a solution to that issue or significantly advancing the understanding of the science that underlies it. Interdisciplinary proposals are encouraged. Awards range from \$75,000-\$125,000/year for up to 2 years. The program description is on the EPA website at <http://es.epa.gov/ncercqa/rfa/>. **Deadline:** 6/23/99. **Contact:** Bala Krishnan, 202/564-6832; [krishnan.bala@epamail.epa.gov](mailto:krishnan.bala@epamail.epa.gov).

## HARRY FRANK GUGGENHEIM FOUNDATION

Research Grants provide support to individuals for research in any of the natural and social sciences and the humanities that will increase understanding of the causes, manifestations, and control of violence, aggression, and dominance. Particular areas of interest concern violence, aggression, and dominance in relation to social change, the socialization of children, intergroup conflict, drug trafficking and use, family relationships, and investigations of the control of aggression and violence. Priority is also given to areas and methodologies not receiving adequate attention and support from other funding sources. Awards normally range from \$15,000-\$35,000/year for 1-2 years. **Deadline:** 8/1/99. **Contact:** 212/644-4907; fax 212/644-5110; <http://www.hfg.org>.

## DEAN WITTER FOUNDATION

Support is provided for research and higher education in finance. Small grants are made primarily for specific wildlife research and conservation projects in Northern California; applicants can be from any part of the country. Funds are typically committed for 2-3 years into the future. Previous awards have ranged up to \$100,000 in finance, up to \$50,000 in conservation. Applicants should submit a brief letter, for which guidelines are provided. **Contact:** Lawrence I. Kramer, Jr., Admin. Director, 415/981-2966; 57 Post Street, Suite 510, San Francisco, CA 94104. **Deadline:** None.

-- Sally Eckert-Tilotta, Assistant to the Director of Research and Program Development.

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